





1602 Park West Dr. • PO Box 169 • Hastings, NE 68902  
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|   |  |  |  |                           |   |
|---|--|--|--|---------------------------|---|
| Lab No.: 11399  |  | <b>FEED ANALYSIS REPORT</b>  |  | Date Reported: 11/10/2025 |   |
| Send To:<br>33423   |  | SOUTHWEST GRAIN NEW ENGLAND<br>SWG<br>170 ELEVATOR RD<br>PO BOX 220<br>NEW ENGLAND, ND 58647 |  |                           |                                |
| Results For:  |  | BILL GUSSEY  |  |                           | <br>Hans Burken<br>Lab Manager |
| Feedstuff Description:  |  | HAY  |  |                           |   |
| Sample Identification:  |  | LOT H  |  |                           |   |
| Date Received:  |  | 11/07/2025   |  |                           |   |
| Invoice No.:  |  | 777515   |  |                           |   |
| PO Number:  |  | 4900352482   |  |                           |   |
| Feed Analysis Results      As Received      100% Dry Matter   |  |  |  |                           |   |
| <b>Near Infrared Reflectance Spectroscopy (NIRS) Analysis</b> |  |  |  |                           |   |
| Moisture, %      13.7   |  |  |  |                           |   |
| Dry Matter, %      86.3                                       |  |  |  |                           |   |
| Crude Protein, %      11.06      12.81                        |  |  |  |                           |   |
| Adjusted Crude Protein, %      11.06      12.81               |  |  |  |                           |   |
| AD-ICP, %      0.93      1.08                                 |  |  |  |                           |   |
| ND-ICP (w/Na2SO3), %      1.58      1.83                      |  |  |  |                           |   |
| Soluble Protein, % CP      29.18      33.80                   |  |  |  |                           |   |
| ADF, % ADF      34.30      39.73                              |  |  |  |                           |   |
| aNDF (w/Na2SO3), % NDF      49.02      56.78                  |  |  |  |                           |   |
| aNDFom, % aNDFom      47.84      55.41                        |  |  |  |                           |   |
| Lignin (Sulfuric Acid), %      5.19      6.01                 |  |  |  |                           |   |
| Lignin % NDF, %      9.36      10.85                          |  |  |  |                           |   |
| uNDFom240, %      19.29      22.34                            |  |  |  |                           |   |
| NDFD240, % NDF      51.52      59.68                          |  |  |  |                           |   |
| Starch, %      0.33      0.38                                 |  |  |  |                           |   |
| Fat (EE), %      2.46      2.85                               |  |  |  |                           |   |



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|-------------------------------|---------|----------------------|-----------------|---------------------------|
| Feed Analysis Results         |         | As Received          | 100% Dry Matter |                           |
| Total Fatty Acid (TFA), % TFA |         | 1.20                 | 1.39            |                           |
| Ash, %                        |         | 8.80                 | 10.19           |                           |
| Calcium, % Ca                 |         | 0.54                 | 0.63            |                           |
| Phosphorus, % P               |         | 0.18                 | 0.21            |                           |
| Magnesium, % Mg               |         | 0.20                 | 0.23            |                           |
| Potassium, % K                |         | 2.14                 | 2.48            |                           |
| Sulfur, % S                   |         | 0.19                 | 0.22            |                           |
| Sugar (ESC), %                |         | 6.45                 | 7.47            |                           |
| Sugar (WSC), %                |         | 7.86                 | 9.11            |                           |
| N.F.C., %                     |         | 18.16                | 21.03           |                           |
| RFV,                          |         | 81.96                | 94.94           |                           |
| Chloride, % Cl                |         | 0.73                 | 0.84            |                           |
|                               |         | <u>ADF</u>           | <u>OARDC</u>    |                           |
| TDN                           | %       | 57.25                | 55.60           |                           |
| NEI                           | Mcal/lb | 0.58                 | 0.56            |                           |
| NEg                           | Mcal/lb | 0.30                 | 0.29            |                           |
| NEm                           | Mcal/lb | 0.55                 | 0.54            |                           |



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| Lab No.: 11399   | FEED ANALYSIS REPORT                                     |                 | Date Reported: 11/10/2025 |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
|--|--|-----------------|---------------------------|------------|----------------------------------|-------|--|-----------|---|-----------|--|----------|------------------------------------|---------|-----------------------------|------|------------------------------|
| Feed Analysis Results  | As Received  | 100% Dry Matter |                           |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| <b>USDA HAY QUALITY GUIDELINES: ALFALFA, ALFALFA/MIX (100% dry matter)</b>   |  |                 |                           |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| <u>QUALITY</u>   | <u>RFV</u>   | <u>ADF %</u>    | <u>NDF %</u> <u>%CP</u>   |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| Supreme  | > 185  | < 27            | < 34      > 22            |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| Premium  | 170-185  | 27-29           | 34-36      20-22          |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| Good   | 150-170  | 29-32           | 36-40      18-20          |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| Fair   | 130-150  | 32-35           | 40-44      16-18          |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| Utility  | < 130  | > 35            | > 44      < 18            |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| <p><b>These USDA marketing guidelines</b> are based primarily on alfalfa or alfalfa-grass mix for dairy cattle use. Suggested guidelines for other forages and other livestock uses are given below. Crude protein, visual appearance, intent of sale, end use, and other factors may influence final hay price. Regional pricing information is available from USDA Hay Marketing Service - Hay Reports at: <a href="http://www.ams.usda.gov/market-news/hay-reports">www.ams.usda.gov/market-news/hay-reports</a></p> <table><thead><tr><th><u>RFV</u></th><th><u>SUGGESTED LIVESTOCK USES:</u></th></tr></thead><tbody><tr><td>&gt; 150</td><td>Prime dairy cows; fresh and high producers</td></tr><tr><td>125 - 150</td><td>Good dairy cows; young heifers; backgrounding</td></tr><tr><td>105 - 125</td><td>Good beef cattle; older heifers; marginal for dairy cows</td></tr><tr><td>87 - 105</td><td>Maintenance of beef and dairy cows</td></tr><tr><td>75 - 87</td><td>May require supplementation</td></tr><tr><td>&lt; 75</td><td>Will require supplementation</td></tr></tbody></table> |  |                 |                           | <u>RFV</u> | <u>SUGGESTED LIVESTOCK USES:</u> | > 150 | Prime dairy cows; fresh and high producers | 125 - 150 | Good dairy cows; young heifers; backgrounding | 105 - 125 | Good beef cattle; older heifers; marginal for dairy cows | 87 - 105 | Maintenance of beef and dairy cows | 75 - 87 | May require supplementation | < 75 | Will require supplementation |
| <u>RFV</u>   | <u>SUGGESTED LIVESTOCK USES:</u>                         |                 |                           |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| > 150  | Prime dairy cows; fresh and high producers               |                 |                           |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| 125 - 150  | Good dairy cows; young heifers; backgrounding            |                 |                           |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| 105 - 125  | Good beef cattle; older heifers; marginal for dairy cows |                 |                           |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| 87 - 105   | Maintenance of beef and dairy cows                       |                 |                           |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| 75 - 87  | May require supplementation                              |                 |                           |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| < 75   | Will require supplementation                             |                 |                           |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |
| NIRs analysis performed utilizing Feedstuff Equations developed by Dairyland Labs, Inc.  |  |                 |                           |            |                                  |       |  |           |   |           |  |          |                                    |         |                             |      |                              |